

Message Text

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13-12

ACTION ERDA-07

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E.O. 11652: N/A

TAGS: ENRG, PL

SUBJECT: US/POLISH JOINT FUND-ERDA PROJECTS

REF: WARSAW 7996

1. THE EMBASSY RECEIVED DEC 17 FROM THE MINISTRY OF MINING AND POWER, A RESEARCH PROPOSAL ON "A NEW CONCEPT IN COAL GASIFICATION UTILIZING MHD EXHAUST GASES IN COAL-FUELED MHD POWER PLANTS", PREPARED BY PROFESSOR WOJCIECH S. BRZOWSKI AND DR. WIESLAW PUDLIK. THREE COPIES OF THE PROPOSAL WILL BE FORWARDED IMMEDIATELY TO ERDA FOR THE ATTENTION OF DR. WILLIAM GOUSE.

2. THE PROPOSAL SUGGESTS A FIVE YEAR PROGRAM STARTING JANUARY 1, 1976, TO STUDY THE COMPLETE UTILIZATION OF MHD GENERATOR EXHAUST GASES FOR COAL GASIFICATION AND IN PRODUCTION OF APPRECIABLE QUANTITIES OF LOW BTU GAS FOR THZBSERS WITHIN THE SAME POWER STATION. THE PROPOSAL NOTES THAT THIS CONCEPT HAD BEEN EXTENSIVELY DISCUSSED DURING THE VISIT OF THE INTERIOR STUDY MISSION TO POLAND IN AUGUST 1974.

3. THE PROPOSAL OUTLINES THE FOLLOWING FIVE YEAR WORK PROGRAM:

A. THEORETICAL WORK AND CALCULATIONS:

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(1) FUNDAMENTALS OF COAL POWDER GASIFICATION IN HIGH

TEMPERATURE FLOW OF GASES WITH HIGH CONTENT OF
CO₂;

(2) PHYSICAL PHENOMENA OF SLAG SEPARATION AND FUSION;

(3) CHEMICAL AND PHYSICAL PROPERTIES OF LIQUID SLAG,
SLAG WITH SEED, AND AND SEED;

(4) PHYSICAL AND ELECTRICAL PROPERTIES OF WORKING
MEDIUM/COMBUSTION PRODUCTS FROM COAL GAS AND
AIR; MOLLIER DIAGRAMS.

B. INVESTIGATIONS ON SMALL-SCALE APPARATUS

C. INVESTIGATIONS ON STANDS OF 0.5 PLUS 1 MW THERMAL INPUT.

D. DEMONSTRATION STAND FOR COAL GASIFICATION BY EXHAUST
GASES FROM MHD GENERATOR, OR SIMULATION OF THIS.

THESE INVESTIGATIONS ARE DESIGNED TO PROVIDE THE NECESSARY DATA
FOR THE CONSTRUCTION OF A PILOT PLANT OF 50 MW DURING THE
PERIOD 1980-1985.

4. THE PROPOSED TOTAL BUDGET IS 54,035,000 ZLOTIES, CONSIDERABLY
IN EXCESS OF THE AMOUNT ERDA IS PREPARED TO FUND ON MHD
RESEARCH WITH POLAND. AS NOTED IN PARAGRAPH 3 OF THE REFERENCED
CABLE, THE POLISH SIDE IS PREPARED TO PAY THE DIFFERENCE AS
A CONTRIBUTION TO THE U.S.-POLISH JOINT BOARD.

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